ENGINEERING CHANGE NOTICE DART AEROSPACE LTD

				DAI	RT AER	ROSPAC	E	LTD					MPP	
Date	: 14.07.31		Job No.:				A	ADR Yes/No:	,	ADR D	ate:	4	F051#144	CO 4
Prod	uct No.: 145-21, 206-21						C	Created By:	/ KJ	Approv	ed By:/	MA	ECN #: 14-	604
Prod	uct Name: Cable Cutters						C	Checked By:	Δ			<u> </u>		
Distr	ribution	Reqd	Resp	Date	Initial /		1	Distribution			Reqd	Resp	Initial / Date (YY/MM	/DD)
Director of Operations Y NF						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	DQA / QA Co	ord.		Y	PS	Date (1 17 Miles	100)
Production Manager / Coord. Y \(\text{LL/MF} \)							1	QC Coordinat			Y	ED		
	hasing Coord.	N	MG/CL		1		1	Customer Sur	port		N .	SW/LM		···
Prod	uction Engineering Coord.	Ŷ	DD/JLM	1/11/	1/144	07.31		Customer Ted	hnical Su	port	N	MB/H\$		
Prod	uction Engineering Coord.	N	DL	1		7	1	Marketing Ma	nager		N	КО		
Custo	omer Order Processing	· N	RM/CC]	Sales Support	Manager		N	NM		
_														
	ion for Change: ad dimension and tolerance (646.9700), re	vised BOM	1 (647.130	0)			_							
	Iments Affected: ase 646.9700 Rev C1, 647.1300 Rev C2		,											
IF A	PPLICABLE: NCR:	_	PAR:		_	CAR:			CIR:				URF:	
	PAPERWORK UPDATE			PARTS	MUST	COMPL	Y	Х	PREVI	OUS P	ARTS S	SATISFA	CTORY	
#	Quality Assurance	e Actions			Reqd	Resp			No	tes			Complete	
1	Notify Previous Customers				N		Г							
2	Notify Eurocopter France	·			N		Г							
3	Notify Augusta Westland				N		Т							
4	Manufacturing Licensing Agreement Upo	late			N		Н							
	manadating Electroning , igreement ope					L								
#	Engineering A	ctions			Reqd	Resp			No	tes			Complete	
5	Required Documents/Drawings/Item ID's	Under Re	view (URF)	N									
6	Update Master Document List (MDL)				N									
7	Update Document Record (DR)				N									
	Update Product Compatability Matrix				N		_						·····	
	Notify TC / FAA of Change (eg. ICA, 811	0-3)			N	 	_							
10		*****				!	_							
#	Document Contro	l Actions			Regd	Resp			Not	es			Complete	
11	Move / Update Electronic Files / Design	Journal			N									
	Update Product Specification Files (Blue				N		_							
	Update Approved/Preliminary Dwg PDF				Y	KJ								
	Update Product Development Summary				N									
	Update QSI 021 (TC/FAA STC) and/or S	TC Approv	al List		N									
	Create/Update Parts / STC Database		-		N									
	Update / Verify Airworthiness Release Co				N		_	_						
	Create / Update Change Record Form / I		Jatabase		N									
	Create / Update Packaging Process Plan Red Decals required on Packaging Proce		DD\2		N N				.					
	Update Controlled Supplier Documents (N									-
	Update Grey Project Binder / Electronic F				N									
	Update D-Part / M-Drawing / DSI / DEO N				N									-
	Update "Royalty Paid to" attribute (Parts			STC's)	N									
25														
													J	
	iption / Action: BOM's and Routes per drawing revision	s						a dd	cur. U	0112 839 118	7/ 39	\mathcal{V}	W 08 10	/
						ECN Veri	fie	d & Complete:		₩-		Date:	· · · · · · · · · · · · · · · · · · ·	

August-01-14 9:01:33 AM

Criteria:	Item ID:	'647.1301', '647.1302'	All Locations	All Warehouses	All Quantity		
Item ID Item Name		Warehouse ID Location ID	Lot Number	Last Trans Date	Lot Qty	Shelf Life Dt Lot Code	Type Code Comments
647.1301 EC145 Cable C	; &	Main Warehouse FG109	104841	7/04/14	1.0000	QC21	118391
647.1302 EC145 Cable C		Main Warehouse FG102	104768	Total: 7/04/14	1.0000 1.0000	QC21	
Removable Pro	ovisions	Main Warehouse FG102	91810	7/04/14	1.0000	qc21	118392
				Total:	2.0000		

ENGINEERING CHANGE NOTICE NO. 04592 SHEET 1 OF 1 APICAL DWG NO. 647.1300 REV: C PREPARED J. BECKER DATE: 06/19/14 EFFECT ON DWG ☐ INC. ☑ UNINC. DWG TITLE: EC145 CABLE CUTTERS KIT INDUSTRIES, INC. ENGR APPROVED BY QC EFF CURRENT STOCK TRANSACTION CODES (TC): A-ADD C-CREATE D-DELETE REASON: REVISED BOM. R-REVISE ACTION LIST:

1. ADD F/N 11 TO ALL CURRENT KITS IN STOCK 2. UPDATE II145-2 & ICA145-2

H		T			r					
	11	R	647.0112	8	8			STRUT BRACKET		
ļ	F/N	TC	PART NUMBER	.1306	.1305	.1304	,1303	DESCRIPTION		
t	חחר	'I IME	NTS EFFECTED	<u> </u>	Q1	<u>ry</u>		DESCRIPTION	MATERIAL	SPECIFICATION
•	D	.0146	NIS EFFECTED					INSTALL INSTRUC MICA MIBOM DI MAJOR	CATEGORY DER	REVIEW REQUIRED

ENGINEERING CHANGE NOTICE NO. 04485 APICAL SHEET 1 UF 1 DWG NO. PREPARED J. SOTO 647.1300 REV: DATE: 04/04/2014 EFFECT ON DWG ☐ INC. X UNINC. DWG TITLE: EC 145 CABLE CUTTERS KIT INDUSTRIES, INC. ENGRE /) . av 3 APPROVED BY: QC **NEXT ORDER** TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE REASON: REVISED F/N 62. ECR: D-14-02

	62	R	601.3008	2	^	_								
,						2	2			NSERT		NACIRO	34C3-300	
	- /\ I	-	D . D	.1306	1304	1303	1301					14/3100	74C3-300	
· F	NA	10	PARI NUMBER		306.1304.1303.1301 QTY				DESC	CRIPTION		MATERIAL		SDECIEIC ATION
Ī,	700	<u>-</u>	MENTS EFFECTED:									- 0, 50110		SPECIFICATION
<i>i</i> '		COMENTS EFFECTED.		☐ MDI	IN	STALL INST	FRUCTIONS	ПІСА	[] EMC	IXI BOM	CHANGE	CATEGORY	DER REVIEW	REQUIRED
L.				MDL INSTALL INSTRUCTIONS							☐ MAJOR	☐ MAJOR ☑ MINOR ☐ YES		⊠ NO

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED. 22 601.0790 RIVET 22 22 22 58 CR3213-4-3 8 8 8 8 57 601.2995 RIVET CR3213-6-6 4 4 4 32 56 601.1915 RIVET CR3213-4-4 12 12 12 12 55 601.2207 NUTPLATE RIVET CCR264SS-3-03 4 4 4 54 601.1983 NUTPLATE RIVET CCR274\$\$-3-03 12 12 12 12 53 601.2980 NUTPLATE RIVET CCR264SS-3-04 12 12 12 12 52 600.0795 NUTPLATE MS21047-3 4 51 601.3209 LOCKNUT MS21042L4 9 4 9 4 50 601.2973 LOCKNUT 5 5 M521042-08 29 17 29 46 16 45 49 601.2943 LOCKNUT MS21042-3 2 85 647,1702 SKID DEFLECTOR ASSY Δ 3 3 3 3 48 601 2375 WASHER 84 10 18 10 18 47 601.2764 647.2113 LOWER RAIL (U CHANNEL KIT) 8 8 WASHER NAS1149FN832P 70 32 70 32 102 46 WASHER 601.3655 601.1607 8 8 83 WASHER LN9025-0820K NA51149F0332P 45 601,2525 SCREW 82 MS27039-0807 8 8 601.3654 SCREW LN9037-8018 1 4 4 4 4 81 647.2112 UPPER U CHANNEL 44 601,1952 **SCREW** MS27039-1-20 4 4 43 601.3010 SCREW M\$27039-0810 4 80 601.3653 WASHER 93475A270 4 4 4 4 42 601.3224 **SCREW** AN525-10R12 2 2 79 601.3652 LOCKNUT 93625A300 6 6 41 601.1365 SCREW MS27039-1-10 78 601.3651 SCREW 2 2 91292A080 CUTTER ASSY (UPPER U 3 3 3 3 40 601.2198 **SCREW** MS27039-1-07 77 647.1403 CHANNEL) 3 3 SCREW - 3 3 39 601.2999 5 5 76 601.3650 BOLT AN3-15A 18 18 18 38 601.2459 **SCREW** Δ 18 MS27039C1-06 REF REF | REF REF 75 647.5701 GPS MOUNT KIT 4 4 37 601.1622 **SCREW** MS27039-1-14 601.1954 MS27039-1-17 2 2 2 2 74 SCREW 10 10 10 10 601.2051 36 SCREW MS24694C52 2 73 2 2 2 647.2010 UPPER STRUT 2 2 2 2 35 601.2823 BOLT AN3-4A 1 1 72 601.2045 RT∨ LOCTITE 598 1 34 601.1324 BOLT AN4CH6A 1 PR-1425 CLASS B 71 600.1012 SEALANT 2 2 33 601.1874 BOLT 2 2 AN3C10A 70 1 1 600.0991 MAGNOBOND 6398 PART B 12 12 16 16 32 BOLT 601.2826 AN3-11A 1 69 600.0990 MAGNOBOND 6398 PART A 8 8 8 8 31 601.2638 WASHER NAS1149F0432P 4 4 4 4 68 601.3012 SCREW MS27039-1-15 30 601.3002 BOLT NAS6604-66 2 2 2 2 67 601.3004 CAMLOC STUD 2 2 2 2 29 647.1811 SPACER 2 2 2 2 66 601.3005 CAMLOC RETAINER 4 4 4 4 28 647.2511 NUT 2 2 2 2 65 601.3006 CAMLOC RECEPTACLE 27 4 647.2510 SLEEVE 3 FT. 3 FT. 3 FT. 3 FT. 64 601.3011 P-SEAL FIND .1306 .1303 .1302 .1301 .1305 .1304 PART # DESCRIPTION MATL SPEC. 1.1 FT 1.1 FT. 1.1 FT. 1.1 FT. 63 601.3007 GROMMET MS21266-2N BOM Table (Restructured) 2 2 2 62 601.3008 INSERT NAS1834C-300 2 ORIGINAL DATE 02-01-06 UMO-DA-YE) CHECKER R. ROSANO D. BARKER APICAL INDUSTRIES 11 11 11 13 61 601.2991 RIVET CR3213-4-6 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300 DPAWING APPROVAL P. BRAVO 08/05/09 CONTRACT Ho. 2 2 2 2 60 601.1039 RIVET CR3213-4-2 8 8 59 601.1183 EC145 CABLE CUTTERS KIT 8 8 RIVET CR3213-4-5 FIND # SKE CAGE CODE DWG. NO. 647.1300 1306 .1305 .1304 .1303 .1302 .1301 PART# DESCRIPTION MATL SPEC.

SCALE NONE

SHEET 2 OF 9

BOM Table (Restructured)

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THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED. DESCRIPTION LAST PROTOTYPE REVISION: PRO N/C N/C INTIAL PELEASE NOTES: UNLESS OTHERWISE SPECIFIED P. BRAYO A INCOPPOPATED ECN 02963, 03020, 03048 01/25/11 P. BRAVC B NCORPORATED ECN 039 19 07/05/13 P. BRAVO AFTER INSTALLATION, APPLY F/N 73 A/R C INCORPORATED FOR MON 06/13/13 PO P. BRAVO, TO FILL GAPS AND FILLET EDGES 13 2. APPLY F/N 74 TO FAYING SURFACES 13 13 13 26 647.1812 SHIM 4 4 4 4 25 647,1910 AT CUSTOMERS OPTION, INSTALL F/N 77 1 24 647.1810 NOSE DOOR DOUBLER BY MATCH DRILLING ONTO F/N 1 1 1 647.1818 23 NOSE DOOR SPACER 4\ INSTALL FOR 647.1301, 647,1302. 2 2 2 2 22 647.1813 ANGLE 1 1 21 647.1913 TEE 5 INSTALL FOR 647.1304, 647.1305. 20 1 647.1814 GUSSET, LH 1 1 1 19 647.1815 APPLICABLE WHEN EUROCOPTER P/N GUSSET, RH 145-250014.11 IS INSTALLED WITH 1 1 1A 647.1915 SUPPORT ANGLE EUROCOPTER CABLE CUTTER FIXED 2 2 2 2 17 647.2011 LOWER STRUT PROVISIONS. 16 647.1914 BRACKET APPLICABLE WHEN REPLACING EUROCOPTER 1 15 647.1816 SUPPORT, 1.H P/N 145-250074.11 14 647,1817 SUPPORT, RH 1 1 13 647,1912 BRACKET, LH 12 647.1911 BRACKET, RH 4 4 4 4 8 11 647.0112 STRUT BRACKET 10 647.2110 LOWER RAIL 9 647.2111 UPPER RAIL UNINCORPORATED ECN(s) 1 1 647.1610 8 WIPER DEFLECTOR, FWD 1 1 1 7 647.1601 WIPER DEFLECTOR ASSY, AFT 04485, 04592 2 2 6 647 1701 SKID DEFLECTOR ASSY 5 647.3201 GROUNDING CABLE ASSY 1 1 1 1 4 647.2201 CROSS ASSY 3 647.1602 DOUBLER ASSY 1 2 647.1402 CUTTER ASSY (LOWER) 647.1401 CUTTER ASSY (UPPER) FIXED PROVISIONS KIT U 647.1306 CHANNEL REMOVABLE PROVISIONS KIT U 647.1305 CHANNEL EC145 CABLE CUTTERS KIT U CHANNEL COMPATIBLE 647.1304 647.1303 FIXED PROVISIONS KIT 647,1302 REMOVABLE PROVISIONS KIT 647.1301 EC145 CABLE CUTTERS KIT .1306 .1305 .1304 .1303 .1302 .1301 PART # DESCRIPTION MATL SPEC. BOM Table(Restructured) QTY PARTS LIST APICAL INDUSTRIES PMO-CA-YR; 07/06/09 DRAWN BY CHECKER R ROSANO D. BARKER 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300 DRAWING APPROVAL **EC145 CABLE CUTTERS KIT** 122E CAGE COOF DIVIS. NO. 647.1300 SCALE NONE

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